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TEST FOR PRIME COAT

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location : at Jyothinagara naidu layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 02-06-2021

Date of Submission: 17-06-21

Tray no.	1	2
Weight of the tray(b)kg	1.625	1.626
Weight of the tray with prime(a) kg	1.768	1.756
Weight of prime(a-b) kg	0.141	0.130
Tray area (sqm)	0.45x0.45=0.2025	0.2025
Rate of spray (kg/sqm)	0.696	0.637
Avg. Rate of spray (kg/sqm)	0.666	

Specified rate as per Specification: 0.6 Kg/sqm

Note:

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TEST FOR PRIME COAT

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location : at Jyothinagara naidu layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 03-06-21

Determination	Unit	Trial no.	
Size of tray in (sqm)		0.45x0.45	0.45x0.45
Area of tray (a)	Sqm	0.2025	0.2025
Initial Wt of empty tray(b)	Kg	1.625	1.627
Final Wt of tray with prime coat (c)	Kg	1.762	1.756
Weight of Prime coat (d=c-b)	Kg	0.137	0.1290
Rate of Spray of prime coat	Kg/Sqm	0.676	0.637
Average	Kg/Sqm	0.656	
Specified Limit	Kg/Sqm	0.60 Kg/sqm	

Date of Submission: 17-06-21

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TEST FOR PRIME COAT

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location : at Sai Nagara 1st cross, Subhash Chandra Bose road, Lakshamayya Reddy layout road
Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 03-06-21

Date of Submission: 17-06-21

Tray no.	1	2
Weight of the tray(b)kg	1.625	1.626
Weight of the tray with prime(a) kg	1.768	1.756
Weight of prime(a-b) kg	0.141	0.130
Tray area (sqm)	0.45x0.45=0.2025	0.2025
Rate of spray (kg/sqm)	0.696	0.637
Avg. Rate of spray (kg/sqm)	0.666	

Specified rate as per Specification: 0.6 Kg/sqm

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TEST FOR PRIME COAT

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location : at Subhash Chandra Bose road

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 03-06-21

Date of Submission: 17-06-21

Note:

Determination	Unit	Trial no.	
Size of tray in (sqm)		0.45x0.45	0.45x0.45
Area of tray (a)	Sqm	0.2025	0.2025
Initial Wt of empty tray(b)	Kg	1.625	1.627
Final Wt of tray with prime coat (c)	Kg	1.762	1.756
Weight of Prime coat (d=c-b)	Kg	0.137	0.1290
Rate of Spray of prime coat	Kg/Sqm	0.676	0.637
Average	Kg/Sqm	0.656	
Specified Limit	Kg/Sqm	0.60 Kg/sqm	

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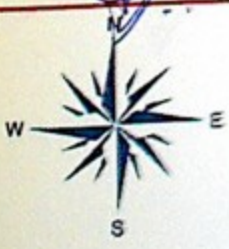

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TEST FOR TACK COAT

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location : At Jyothinagara Naidu layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 07-06-21

Date of Submit: 17-06-21

Tray no.	1	2
Weight of the tray(b)gms	1688	1688
Weight of the tray with prime(a)gms	1713.9	1712.92
Weight of prime(a-b)gms	25.9	24.92
Tray area (sqm)	300*300=0.09sqm	300*300=0.09sqm
Rate of spray (kg/sqm)	0.0259/0.09=0.287 kg/sqm	0.02492/0.09=0.27 kg/sqm
Avg. Rate of spray (kg/sqm)	0.278	

Specified rate as per Specification: 0.25 Kg/sqm

Note:

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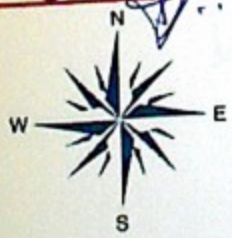

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TEST FOR TACK COAT

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location : At Sai Nagara 1st cross, Subhash Chandra Bose road, Lakshamayya reddy layout road

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 07-06-21

Date of Submit: 17-06-21

Tray no.	1	2
Weight of the tray(b)gms	1688	1688
Weight of the tray with prime(a)gms	1714	1713
Weight of prime(a-b)gms	26	25
Tray area (sqm)	300*300=0.09sqm	300*300=0.09sqm
Rate of spray (kg/sqm)	0.026/0.09=0.29 kg/sqm	0.025/0.09=0.27 kg/sqm
Avg. Rate of spray (kg/sqm)	0.28	

Specified rate as per Specification: 0.25 Kg/sqm

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TEST FOR TACK COAT

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location : At Jyothinagara Naidu layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 07-06-21

Date of Submit: 17-06-21

Tray no.	1	2
Weight of the tray(b)gms	1688	1688
Weight of the tray with prime(a)gms	1713.9	1712.92
Weight of prime(a-b)gms	25.9	24.92
Tray area (sqm)	300*300=0.09sqm	300*300=0.09sqm
Rate of spray (kg/sqm)	0.0259/0.09=0.287 kg/sqm	0.02492/0.09=0.27 kg/sqm
Avg. Rate of spray (kg/sqm)	0.278	

Specified rate as per Specification: 0.25 Kg/sqm

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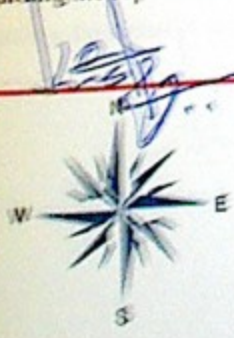

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TEST FOR TACK COAT

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location : At Sai Nagara 1st cross, Subhash Chandra Bose road, Lakshamayya reddy layout road

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 07-06-21

Date of Submit: 17-06-21

Tray no.	1	2
Weight of the tray(b)gms	1688	1688
Weight of the tray with prime(a)gms	1714	1713
Weight of prime(a-b)gms	26	25
Tray area (sqm)	300*300=0.09sqm	300*300=0.09sqm
Rate of spray (kg/sqm)	0.026/0.09=0.29 kg/sqm	0.025/0.09=0.27 kg/sqm
Avg. Rate of spray (kg/sqm)	0.28	

Specified rate as per Specification: 0.25 Kg/sqm

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BITUMEN EXTRACTION TEST [FIELD TEST] ON DENSE GRADED BITUMINOUS MACADAM

ame of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, mba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package lo- 06)

ocation : At Jyothinagara Naidu Layout, lakshmayya Reddy layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 04-06-21

Tests on DENSE GRADED BITUMINOUS MACADAM

Test No 1

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	476	24	4.80
2	500	477	23	4.60

Test No 2

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	476.5	24.5	4.7
2	500	476	23	4.6

Note:

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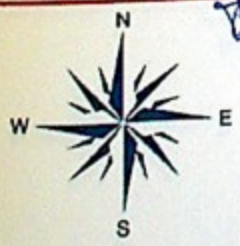

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BITUMEN EXTRACTION TEST [FIELD TEST] ON DENSE GRADED BITUMINOUS MACADAM

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

Location : At Jyothinagara Naidu Layout, lakshmayya Reddy layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 05-06-21

Tests on DENSE GRADED BITUMINOUS MACADAM

Test No 1

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	476.5	24.5	4.7
2	500	476	23	4.6

Test No 2

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	476	24	4.80
2	500	477	23	4.60

Note:

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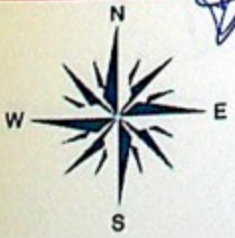

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BITUMEN EXTRACTION TEST [FIELD TEST] ON DENSE GRADED BITUMINOUS MACADAM

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

Location : At Jyothinagara Naidu Layout, lakshmayya Reddy layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 06-06-21

Tests on DENSE GRADED BITUMINOUS MACADAM

Test No 1

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	476.5	24.5	4.7
2	500	476	23	4.6

Test No 2

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	476	24	4.80
2	500	477	23	4.60

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BITUMEN EXTRACTION TEST [FIELD TEST] ON DENSE GRADED BITUMINOUS MACADAM

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location : At Jyothinagara Naidu Layout, lakshmayya Reddy layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 05-06-21

Tests on DENSE GRADED BITUMINOUS MACADAM

Test No 1

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	476.5	24.5	4.7
2	500	476	23	4.6

Test No 2

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	476	24	4.80
2	500	477	23	4.60

Note:

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BITUMEN EXTRACTION TEST [FIELD TEST] ON DENSE GRADED BITUMINOUS MACADAM

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location : At Jyothinagara Naidu Layout, lakshmayya Reddy layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 06-06-21

Tests on DENSE GRADED BITUMINOUS MACADAM				
Test No 1				
Sample No	**Initial Weight of the Mix [w1], in g**	**Weight of mix after extraction of Bitumen [w2], in g**	**Difference in weight, w=[w1-w2], in g**	**Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %**
1	500	476.5	24.5	4.7
2	500	476	23	4.6
Test No 2				
Sample No	**Initial Weight of the Mix [w1], in g**	**Weight of mix after extraction of Bitumen [w2], in g**	**Difference in weight, w=[w1-w2], in g**	**Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %**
1	500	476	24	4.80
2	500	477	23	4.60

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BITUMEN EXTRACTION TEST [FIELD TEST] ON DENSE GRADED BITUMINOUS MACADAM

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location : At Subhash Chandra Bose Road, Sai Nmagara 1st cross

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 04-06-21

Tests on DENSE GRADED BITUMINOUS MACADAM				
Test No 3				
Sample No	**Initial Weight of the Mix [w1], in g**	**Weight of mix after extraction of Bitumen [w2], in g**	**Difference in weight, w=[w1-w2], in g**	**Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %**
1	500	477	23	4.6
2	500	477.5	22.5	4.5
Test No 4				
Sample No	**Initial Weight of the Mix [w1], in g**	**Weight of mix after extraction of Bitumen [w2], in g**	**Difference in weight, w=[w1-w2], in g**	**Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %**
1	500	476	24	4.80
2	500	477	23	4.60

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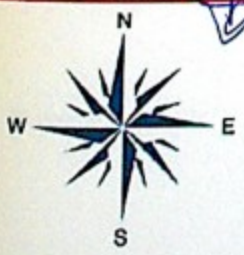

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BITUMEN EXTRACTION TEST [FIELD TEST] ON BITUMINOUS CONCRETE

ame of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba havani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

ocation : At Jyothinagara Naidu Layout, Subhash Chandra Bose road

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 08-06-21

Date of Testing: 17-06-21

Tests on Bituminous Concrete

Test No 1

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	471.5	28.5	5.7
2	500	472	28	5.6

Test No 2

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	472	28	5.6
2	500	472	28	5.6

Note:

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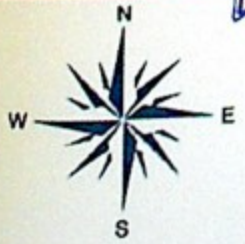

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BITUMEN EXTRACTION TEST [FIELD TEST]

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location : At Sai Nagara 1st cross, Lakshamayya Reddy layout road

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 08-06-21

Date of Submit: 17-06-21

Tests on Bituminous Concrete

Test No 3

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	472	28	5.6
2	500	472	28	5.6

Test No 4

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	471.5	28.5	5.7
2	500	472	28	5.6

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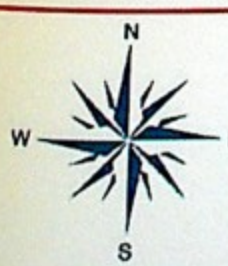

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BITUMEN EXTRACTION TEST [FIELD TEST]

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location : At Sai Nagara 1st cross, Lakshamayya Reddy layout road

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 09-06-21

Date of Submit: 17-06-21

Tests on Bituminous Concrete

Test No 3

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	472	28	5.6
2	500	472	28	5.6

Test No 4

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	471.5	28.5	5.7
2	500	472	28	5.6

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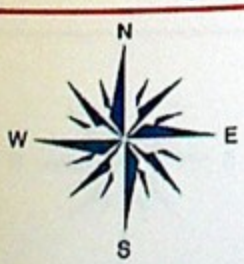

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BITUMEN EXTRACTION TEST [FIELD TEST] ON BITUMINOUS CONCRETE

Name of Work: Improvements to Asphalting to Roads and Drains in Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location : At Jyothinagara Naidu Layout, Subhash Chandra Bose road

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 09-06-21

Date of Testing: 17-06-21

Tests on Bituminous Concrete

Test No 1

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	471.5	28.5	5.7
2	500	472	28	5.6

Test No 2

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	472	28	5.6
2	500	472	28	5.6

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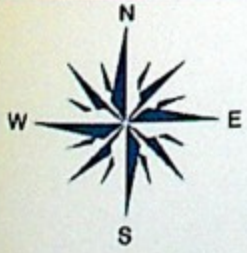

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BITUMEN EXTRACTION TEST [FIELD TEST]

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location : At Jyothinagara Naidu Layout, Subhash Chandra Bose road

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 10-06-21

Date of Submit: 17-06-21

Tests on Bituminous Concrete

Test No 3

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	472	28	5.6
2	500	472	28	5.6

Test No 4

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	471.5	28.5	5.7
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BITUMEN EXTRACTION TEST [FIELD TEST]

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location : At Jyothinagara Naidu Layout, Subhash Chandra Bose road

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 10-06-21

Date of Submit: 17-06-21

Tests on Bituminous Concrete

Test No 3

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	472	28	5.6
2	500	472	28	5.6

Test No 4

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	471.5	28.5	5.7
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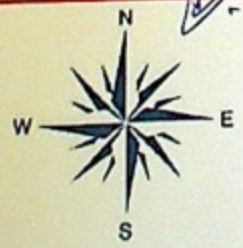

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JOB MIX FORMULA

Name of workImprovements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 01-06-21

Date of Submission: 02-06-21

Table 1, Job mix formula for BC Grade- II (Proportioning of Aggregates)

Sieve Size	Materials A % Passing	Materials B % Passing	Materials C % Passing	Materials D % Passing	Obtained gradation % passing	Desired gradation BC grade II ,% passimg MORTH 5th Rev
19	100	100.00	100.00	100	100	100
13.2	89.20	100	100	100	90.70	90-100
9.5	16.7	79.00	100	100	76.96	70-88
4.75	2.24	8.52	78.25	100	63.01	53-71
2.36	0.79	1.60	52.55	92.60	55.51	42-58
1.18		1.10	21.20	83.60	48.35	34-48
0.600		1.00	10.60	63.60	36.49	26-38
0.300		0.94	6.85	43.10	24.77	18-28
0.150		0.86	4.20	22.50	13.	12-20
0.075		0.66	2.25	10.90	6.40	4-10

Material A 20mm = 12%

Material B 1 2.5 mm = 24%

Material C 6.0mm = 6%

Material D 4.75 mm down = 56%

Filler Cement = 2%

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Note:-Test and mix design results are for the aggregates and bitumen

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TEST REPORT ON STABILITY OF MIX

Name of workImprovements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-05/W.O/178/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-05/AG/149/2020-21

Agency: Sri N. K. Shankar M/s I. S. Infrastructure

Date of Testing: 01-06-21

Date of Submission: 02-06-21

Table 2, Marshal Stability, Flow, Density and Voids Analysis for BC Grade- II

Marshal Properties	Obtained	Standards
Marshal Stability, kg	1855	Min 900
Flow Value, mm	3.3	2-4
Gb, gm	2.38	-
Air Voids (ϛv) %	3.79	3-5
Voids filled with Mineral Aggregates(VMA)%	16.70	13.0 Minimum
Voids Filled with Bitumen (VFB)	74.7	65-75
Bitumen Concrete %	5.8	5-7

Γb: Bulk Density
ϛv: Air Voids
ϛb: Volume of Bitumen
VFB: Voids Filled with bitumen %
VMA: Voids in the Mineral Aggregates %

Note: Test and mix design results are for the aggregates and bitumen

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